



**Sujata**  
Nutri-Pharma

**SUJATA NUTRI-PHARMA PVT. LTD.**  
875/2, GIDC Estate, Makarpura, Vadodara-390010

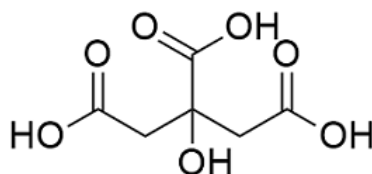
### MATERIAL SAFETY DATA SHEET

Name of product : <b>CITRIC ACID ANHYDROUS</b>	Page Revision no .	1 of 8 00
Document number : <b>SNP/MSDS-012</b>	Effective date :	02-05-2022

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifiers:

Product form : Substance  
Substance name : Citric Acid Anhydrous  
CAS No : 77-92-9  
Formula : C<sub>6</sub>H<sub>8</sub>O<sub>7</sub>



Citric acid

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only.  
Recommended use : Laboratory chemicals  
Restrictions on use : Not for food, drug or household use

##### 1.3 Details of the supplier of the safety data sheet

875/2 GIDC Estate Makarpura Vadodara 390010, Gujarat , India  
Telephone : 0265-3500351  
Website : www.sujatanutripharma.com  
Email : info@sujatanutripharma.com

##### 1.4 Emergency telephone number

Emergency telephone : 02652630282 (9:00 to 6:00) office hours only

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

###### GHS-US classification

Serious eye damage/eye irritation Category 2A H319  
Full text of H statements : see section 16

##### 2.2 Label elements

###### GHS-US labeling

Hazard pictograms (GHS-US) :

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GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash exposed skin thoroughly after handling

P280 - Wear eye protection

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

**2.3 Other hazards**

Other hazards not contributing to the classification: None.

**2.4. Unknown acute toxicity**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Substance type : Mono-constituent

Name : Citric Acid, Anhydrous (Main constituent)

Product identifier : (CAS No) 77-92-9

% : 100

GHS classification : Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

**3.2. Mixture** ;Not applicable

**Section 4: First Aid Measures**

**4.1 Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical

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attention.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Slight irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Nausea.

Chronic symptoms : Affection/discoloration of the teeth.

**4.3 Indication of any immediate medical attention and special treatment needed**

None.

**SECTION 5: Firefighting measures**

**SECTION 5: Fire Fighting Measures**

**5.1 Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream..

**5.2 Special hazards arising from the substance or mixture**

Fire hazard : Not flammable.

Explosion hazard : Not applicable.

Reactivity : None.

**5.3 Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**5.4 Further information**

No data available

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.




**6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust.

Store away

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from other materials.

**6.4. Reference to other sections**

See Heading 8. Exposure controls and personal protection.

**Section 7: Handling and Storage**

**7.1. Precautions for safe handling**

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Wash exposed skin thoroughly after handling.

**7.2. Conditions for safe storage, including any incompatibilities**

Store at ambient/room temperature away from sunlight in a tightly closed condition.

**Section 8: Exposure Controls/Personal Protection**

**8.1 Control parameters**

No additional information available

**8.2 Exposure controls**

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Avoid all unnecessary exposure. Gloves. Safety glasses.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Respiratory protection not required in normal conditions.

Other information : Do not eat, drink or smoke during use..

**Section 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

Physical state : Solid

Appearance : White powder or lumps.

Color : white




Odor : Odorless

Odor threshold : No data available

pH : 1.7 10% solution

Melting point : 153 °C

Freezing point : No data available

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Boiling point : 175 °C  
Flash point : No data available  
Relative evaporation rate (butyl acetate=1) : No data available  
Flammability (solid, gas) : Non flammable.  
Vapor pressure : No data available  
Relative vapor density at 20 °C : No data available  
Relative density : No data available  
Specific gravity / density : 1.665 g/cm<sup>3</sup>  
Molecular mass : 192.12 g/mol  
Solubility : Soluble in water. Soluble in ethanol. Soluble in ether.  
Water: 59.2 %  
Log Pow : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : 175 °C  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosion limits : No data available  
Explosive properties : No data available.  
Oxidizing properties : None

**Section 10 : Stability and Reactivity Data**

**10.1. Reactivity**

None.

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**Section 11 : Toxicological Information**

**11.1. Information on toxicological effects**

Likely routes of exposure : Inhalation; Skin and eye contact; Ingestion

Acute toxicity : Not classified

**Citric Acid, Anhydrous (77-92-9)**

LD50 oral rat 5400 mg/kg

ATE US (oral) 5400.000 mg/kg body weight

Skin corrosion/irritation : Not classified

pH: 1.7 10% solution

Serious eye damage/irritation : Causes serious eye irritation.

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pH: 1.7 10% solution  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Based on available data, the classification criteria are not met  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 Based on available data, the classification criteria are not met  
 Specific target organ toxicity – single exposure : Not classified  
 Specific target organ toxicity – repeated exposure : Not classified  
 Aspiration hazard : Not classified  
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.  
 Symptoms/injuries after inhalation : May cause respiratory irritation.  
 Symptoms/injuries after skin contact : Slight irritation.  
 Symptoms/injuries after eye contact : Causes serious eye irritation.  
 Symptoms/injuries after ingestion : Nausea  
 Chronic symptoms : Affection/discolouration of the teeth.

**Section 12 : Ecological Information**

**12.1 Toxicity**

Ecology - water : Harmful to aquatic life.

<b>Citric Acid, Anhydrous (77-92-9)</b>	
LC50 fish 1	440 mg/l
EC50 Daphnia 1	1534 mg/l

**12.2 Persistence and degradability**

<b>Citric Acid, Anhydrous (77-92-9)</b>	
Persistence and degradability	Not established

**12.3 Bioaccumulative potential**

<b>Citric Acid, Anhydrous (77-92-9)</b>	
Bioaccumulative potential	Not established




**12.4 Mobility in soil**

No additional information available

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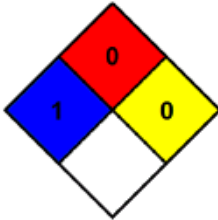
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<b>12.5 Other adverse effects</b> Other information : Avoid release to the environment.
<b>Section 13 : Disposal Considerations</b>
<b>13.1. Waste treatment methods</b> Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Ecology - waste materials : Avoid release to the environment.
<b>Section 14 : Transport Information</b>
<b>Department of Transportation (DOT)</b> In accordance with DOT Not regulated
<b>Section 15: Other Regulatory Information</b>
<b>15.1. US Federal regulations</b> <b>Citric Acid, Anhydrous (77-92-9)</b> Listed on the United States TSCA (Toxic Substances Control Act) inventory All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
<b>15.2. International regulations</b> <b>CANADA</b> <b>Citric Acid, Anhydrous (77-92-9)</b> WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects <b>EU-Regulations</b> No additional information available <b>National regulations</b> No additional information available
<b>15.3. US State regulations</b> California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm
<b>Section 16 : Other Information</b>

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Revision no: 00  
 Revision date: 02-05-2022  
 Other information: None.  
 Full text of H-phrases: see section 16:  
 H319 Causes serious eye irritation  
 NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.  
 NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.  
 NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



HMIS III Rating  
 Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
 Flammability : 0 Minimal Hazard - Materials that will not burn Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.  
 Personal protection : B  
 B - Safety glasses, Gloves

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sujata Nutri-Pharma Pvt.Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

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